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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/635,798	08/11/2000	Andre van Doorn	142-327P	9236
2292	7590 11/14/2003		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			NGUYEN, THINH H	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
	•	•	2861	

DATE MAILED: 11/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/635,798	VAN DOORN ET AL.	
•	Office Action Summary	Examiner	Art Unit	
		Thinh H Nguyen	2861	
	The MAILING DATE of this communication ap		the correspondence address	
Period fo	• •			
THE   - Extermination of the control	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repl ly within the statutory minimum of thirty ( will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	y be timely filed  30) days will be considered timely.  S from the mailing date of this communication.  IDONED (35 U.S.C. § 133).	
1)	Responsive to communication(s) filed on	·		
2a)⊠	This action is <b>FINAL</b> . 2b) The	nis action is non-final.		
3) <u> </u>	Since this application is in condition for allow closed in accordance with the practice under ion of Claims			
4) 🖾	Claim(s) 1-6 is/are pending in the application.			
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)[	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-6</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/o	or election requirement.		
Applicati	on Papers			
9)[	The specification is objected to by the Examine	er.		
10) 🗌 🤈	The drawing(s) filed on is/are: a)∏ acce	pted or b) objected to by the	Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
11) 🗌 .	The proposed drawing correction filed on	_ is: a)∏ approved b)∏ disa	approved by the Examiner.	
	If approved, corrected drawings are required in re	ply to this Office action.		
12) 🗌 .	The oath or declaration is objected to by the Ex	kaminer.		
riority u	ınder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a)[	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document	s have been received.		
	2. Certified copies of the priority document	s have been received in App	lication No	
* S	3. Copies of the certified copies of the prio application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	•	
14) 🗌 A	cknowledgment is made of a claim for domest	ic priority under 35 U.S.C. §	119(e) (to a provisional application).	
	) ☐ The translation of the foreign language pro Acknowledgment is made of a claim for domest	• •		
ttachmen	i(s)			
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Info	nmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)	
Patent and Tr	ademark Office ev. 04-01) Office A	ction Summary	Part of Paper No. 13	

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 are rejected under 35 U.S.C. § 102(b) as being anticipated by Hackleman. (U.S.5,640,183)

Hackleman (see col.3, line 35 – col. 4) discloses the instant claimed printing method and device containing at least one printhead 14 provided with at least one row of nozzles 16 having nozzle spaced at 1/300-inch. The pixel row being formed at 300 dpi which resolution being equal to the resolution of the pixel column (nozzle pitch). Means for initiating a first printing stage in which a strip of pixel row(s) 2 through +1 (col.4, line 15), said printhead being displaced in a direction parallel to the pixels columns, means initiating a second printing stage in which a strip of pixel row(s) 3 through +2 (see carriage and paper feed controlling of Hickman reference of which incorporated herein by Hackleman, col.2) wherein said printhead being displaced over a fixed distance (according to Hickman col.5, lines 1-23, the one pixel row width can be selected as any non-random value e.g., 0, 1, 2, ..., n.) such that the same is substantially equal to the width of one pixel row.

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Re claim 2, the limitation of the one extra nozzle is shown by the +/- nozzle(s) (see fig.5).

Re claims 3, 4, the limitation is shown by nozzle rows being used to print a pixel in the first and second printing stage are from different sets of nozzles of the same printhead or different printheads 16 (fig.4; see also col.3, lines 64 – col.4, line 18).

Re claim 5, the limitation of substantially each pixel is printed with no more than one ink drop is shown in col3, lines 51-54.

## Response to Amendment

Applicant's Amendment filed September 4, 2003 has been entered and carefully considered.

Applicants' arguments with respect to new issues that printhead being displaced over a <u>fixed</u> distance have been considered as noted in the above new grounds of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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#### **Contact Information**

Any inquiry concerning this communication should be directed to Examiner Thinh Nguyen at telephone number (703) 308-7487.

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-0956.

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Thinh Nguyen

November 13, 2003

Thinh Nguyen Primary Examiner Technology Center 2800